

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_5 ~ C1216XT-13LXXK-MDEX-TCY-NLXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00629_5_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-13L-xxK-MD-EX-TCY-NL

[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder

[OTHER] Internal Reflector, Medium Beam

[OTHER] No lens

[OTHER] 20.1 Degree Beam Angle

[OTHER] Aimed at 0 Degrees

[LAMPCAT] N/A, 19mm LES

[LAMP] N/A, 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1244
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_5 ~ C1216XT-13LXXK-MDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4192	7705	10645
55	1474	1585	1718
65	1234	1362	1545
75	1483	1598	1707
85	1519	1785	2229

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	4714.629	4714.629	4714.629	4714.629	4714.629	4714.629	4714.629	4714.629	4714.629	4714.629
5	3999.007	3968.445	3851.574	3869.001	3884.148	4124.697	4102.645	4116.261	4031.340	3986.331
10	2341.626	2301.789	2297.421	2245.659	2257.695	2448.843	2462.891	2335.850	2350.425	2315.315
15	1002.792	996.314	1057.800	1021.391	1007.452	1071.125	1109.063	981.725	1011.414	990.164
20	554.830	560.954	585.161	585.614	582.173	569.693	579.184	564.697	564.713	551.970
25	472.268	478.645	488.892	496.083	499.466	478.198	474.369	491.635	485.543	474.667
30	445.644	452.545	461.362	469.020	474.462	456.638	449.609	470.313	463.708	453.037
35	399.306	415.069	412.352	439.587	434.674	417.821	415.231	439.279	424.237	409.752
40	198.763	223.109	246.966	289.659	308.349	284.301	269.473	324.170	296.200	269.275
45	42.293	43.129	77.735	79.746	107.397	103.268	100.023	110.043	103.013	82.639
50	19.349	17.014	19.488	17.306	22.003	29.851	28.923	22.629	25.952	23.532
55	12.066	12.641	12.970	14.276	14.056	15.969	17.038	14.898	14.568	15.301
60	11.883	11.160	11.196	12.237	12.081	14.964	15.801	14.971	13.601	14.183
65	7.440	8.687	8.215	10.310	9.316	13.353	14.038	12.048	13.101	12.682
70	6.337	6.124	6.164	6.114	7.414	12.581	13.595	11.395	12.158	11.424
75	5.478	5.271	5.903	5.999	6.302	13.015	12.363	11.710	12.010	11.977
80	3.650	4.764	4.794	5.618	5.395	12.513	11.600	12.266	11.317	10.747
85	1.889	2.019	2.220	2.412	2.772	8.169	10.092	9.670	11.234	10.080
90	0.000	0.000	0.000	0.000	1.024	6.614	6.124	6.688	6.756	6.638
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	4714.629	4714.629	4714.629	4714.629	4714.629	4714.629	4714.629
5	3864.186	3850.890	3844.033	4101.924	4081.958	4040.019	3999.007
10	2297.357	2258.759	2243.202	2447.061	2462.123	2323.381	2341.626
15	1044.149	980.875	959.890	1070.465	1116.552	940.815	1002.792
20	567.328	538.530	540.441	569.575	579.686	525.313	554.830
25	472.614	467.702	465.455	472.599	475.324	467.237	472.268
30	446.362	440.937	437.363	441.880	442.509	435.603	445.644
35	399.876	379.136	387.349	388.042	381.979	380.845	399.306
40	232.852	212.409	182.544	202.875	212.648	188.004	198.763
45	74.662	56.689	43.045	57.708	72.437	42.597	42.293

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50	21.827	23.292	23.943	22.878	22.687	22.288	19.349
55	15.490	14.196	14.702	14.561	14.380	12.287	12.066
60	12.805	13.276	14.030	11.892	11.425	12.172	11.883
65	11.295	12.094	12.587	10.851	8.628	7.928	7.440
70	11.605	10.254	11.122	6.116	7.813	5.572	6.337
75	11.599	10.436	10.570	6.263	6.139	5.395	5.478
80	12.270	11.399	11.829	5.135	5.449	4.586	3.650
85	10.472	9.605	8.473	2.150	2.568	1.643	1.889
90	6.916	5.982	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	660.04	N.A.	53.10
0-30	887.25	N.A.	71.30
0-40	1123.08	N.A.	90.30
0-60	1216.6	N.A.	97.80
0-80	1236.67	N.A.	99.40
0-90	1242.98	N.A.	99.90
10-90	912.96	N.A.	73.40
20-40	463.04	N.A.	37.20
20-50	542.19	N.A.	43.60
40-70	104.33	N.A.	8.40
60-80	20.07	N.A.	1.60
70-80	9.25	N.A.	0.70
80-90	6.32	N.A.	0.50
90-110	0.80	N.A.	0.10
90-120	0.80	N.A.	0.10
90-130	0.80	N.A.	0.10
90-150	0.80	N.A.	0.10
90-180	0.80	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1243.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	330.02
10-20	330.02
20-30	227.21
30-40	235.83
40-50	79.15
50-60	14.36
60-70	10.82
70-80	9.25
80-90	6.32
90-100	0.80
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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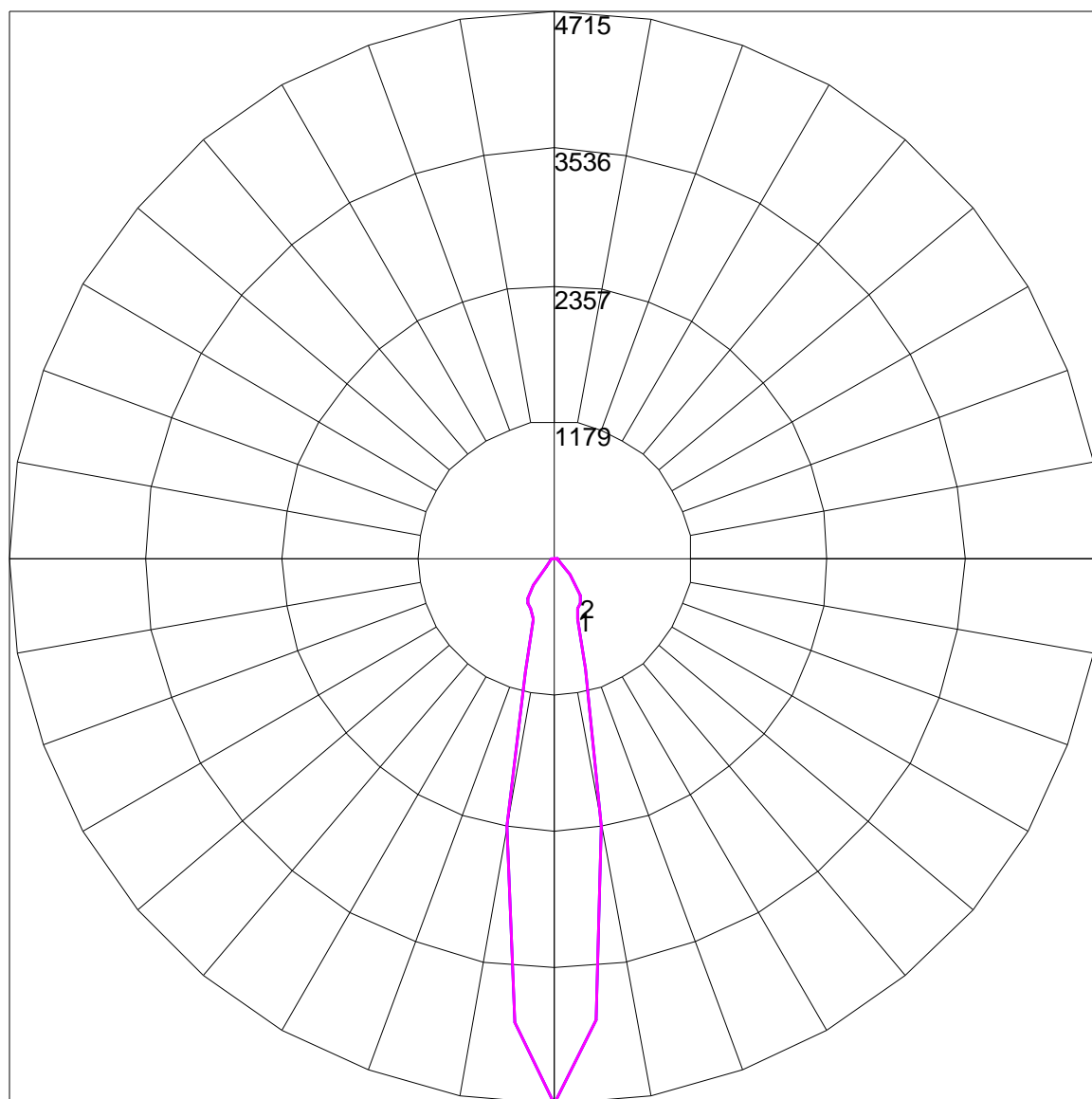
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	78	84	80	77	83	79	76	81	78	76	74
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	65	72	68	65	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	62	61
10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	66	63	60	59

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POLAR GRAPH



Maximum Candela = 4714.629 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)